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**ASSIGNMENT BOOKLET 1A**MAT1225 Mathematics 14  
Module 1: Section 1 Assignment**FOR STUDENT USE ONLY**

Date Assignment Submitted:

(If label is missing or incorrect)

Student File Number:

Time Spent on Assignment:

Module Number: \_\_\_\_\_

**FOR OFFICE USE ONLY**

Assigned

Teacher: \_\_\_\_\_

Assignment

Grading: \_\_\_\_\_

Graded by: \_\_\_\_\_

Date Assignment Received:

**Student's Questions  
and Comments**

Apply Module Label Here

Name

Address

Postal Code

Please verify that preprinted label is for  
correct course and module.**Teacher's Comments**\_\_\_\_\_  
Teacher

# **INSTRUCTIONS FOR SUBMITTING THIS DISTANCE LEARNING ASSIGNMENT BOOKLET**

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- Has your work been reread to ensure accuracy in spelling and details?
- Is the booklet cover filled out and the correct module label attached?

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## **E-MAILING**

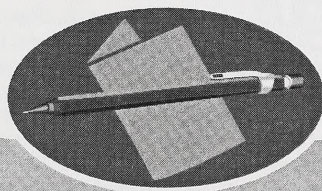
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# **Mathematics 14**

## **Module 1**

### **Number**

#### **ASSIGNMENT BOOKLET 1A**



Learning  
Technologies  
Branch

**Alberta**  
LEARNING

## FOR TEACHER'S USE ONLY

### Summary

|                      | Total Possible Marks | Your Mark |
|----------------------|----------------------|-----------|
| Section 1 Assignment | 40                   |           |
|                      | 40                   |           |

### Teacher's Comments

Mathematics 14  
Module 1: Number  
Assignment Booklet 1A  
Section 1 Assignment  
Learning Technologies Branch  
ISBN 0-7741-2482-2

**The Learning Technologies Branch acknowledges with appreciation the Alberta Distance Learning Centre and Pembina Hills Regional Division No. 7 for their review of this Assignment Booklet.**

This document is intended for

|                  |   |
|------------------|---|
| Students         | ✓ |
| Teachers         | ✓ |
| Administrators   |   |
| Home Instructors |   |
| General Public   |   |
| Other            |   |

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**ASSIGNMENT BOOKLET 1A  
MATHEMATICS 14: MODULE 1  
SECTION 1 ASSIGNMENT**

Your mark for this module will be determined in part by how well you do your assignments.

This Assignment Booklet is worth 40 marks out of the total 100 marks for the assignments in Module 1. The value of each assignment and each question is stated in the left margin.

Work slowly and carefully. If you have difficulty, go back and review the appropriate lessons.

Be sure to proofread your answers carefully.

40

**Section 1 Assignment: Integers**

**Read all parts of your assignment carefully and record your answers in the appropriate places. Clearly show how you arrived at your answers by showing your work.**

2

1. Evaluate the expression  $3^2 - 4(16 - 14)$ .

2

2. a. Write an expression to show that 45 is increased by the quotient of 54 and 9.

- ① b. Evaluate the expression you wrote for question 2.a.



Turn to Section 1: Lesson 2 in the Module 1 Student Module Booklet.

3. Write an integer to show each of the following.

① a. 20 m below sea level \_\_\_\_\_

① b. a bank deposit of \$500 \_\_\_\_\_

② 4. Graph  $-4$  and its opposite on a number line.

① 5. Fill in  $\square$  with  $<$  or  $>$ .

$$-2 \square -9$$

① 6. Write the following set of integers from least to greatest.

$$0, -3, 4, -5 \underline{\hspace{2cm}}$$



Turn to Section 1: Lesson 3 in the Module 1 Student Module Booklet.

- ④ 7. Explain how you would use tiles to add  $(+4) + (-5)$ . Draw diagrams to support your answer.

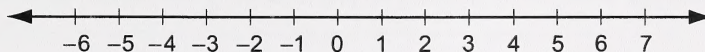
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- ② 8. Use the number line to calculate  $(-5) + (+3)$ .



- ② 9. The temperature was  $-4^{\circ}\text{C}$  and it dropped  $5^{\circ}\text{C}$ . Then, it rose  $2^{\circ}\text{C}$ . Write an addition statement to model this situation and then calculate the final temperature.

①

10. Evaluate  $(-456) + (-675) + (+785)$ .



Turn to Section 1: Lesson 4 in the Module 1 Student Module Booklet.

④

11. Explain how you would use algebra tiles to perform the following subtraction. Draw diagrams to support your answer.

$$(-4) - (-6)$$

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- ② 12. For  $(-3) - (-9)$ , write the equivalent addition sentence. Write the answer to this sentence.

- ② 13. Evaluate  $(-5) - (-4) + (-3) - (+4)$ .



Turn to Section 1: Lesson 5 in the Module 1 Student Module Booklet.

- ② 14. State whether the following product will be positive or negative. Explain your reasoning.

$$(-5)(-2)(+3)(-4)(+1)(-1)$$
  

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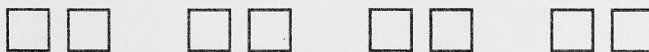
  

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Turn to Section 1: Lesson 6 in the Module 1 Student Module Booklet.

- ③ 15. Alexia used white tiles to represent a division problem involving a negative integer. What division problem did she model and what is the answer to this problem?



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16. Evaluate the following.

②

a.  $(+3)(-4)(-6)$

b.  $\frac{-65}{-13}$

①

17. Calculate the missing integer.

$$(-45) \div \square = -5$$

③

18. Hannah was taking a ride in a hot-air balloon. The ground temperature was  $+24^{\circ}\text{C}$ . As the balloon rose, the temperature dropped  $2^{\circ}\text{C}$  every 100 m. What was the temperature after the balloon climbed 600 m? As part of your solution, write a number sentence using integers to model the problem.

①

19. Explain how you would determine if the quotient of two integers is positive or negative.

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**ASSIGNMENT BOOKLET 1B**

MAT1225 Mathematics 14

Module 1: Section 2 Assignment and Final Module Assignment

**FOR STUDENT USE ONLY**

Date Assignment Submitted:

\_\_\_\_\_

Time Spent on Assignment:

\_\_\_\_\_

(If label is missing or incorrect)

Student File Number:

\_\_\_\_\_

Module Number: \_\_\_\_\_

**FOR OFFICE USE ONLY**

Assigned

Teacher: \_\_\_\_\_

Assignment

Grading: \_\_\_\_\_

Graded by: \_\_\_\_\_

Date Assignment Received:

**Student's Questions  
and Comments**

**Apply Module Label Here**

**Name**

**Address**

**Postal Code**

*Please verify that preprinted label is for  
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**Teacher's Comments**

\_\_\_\_\_  
**Teacher**

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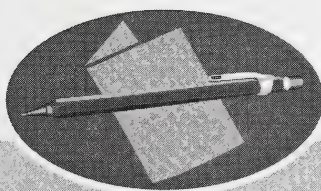
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# **Mathematics 14**

## **Module 1**

### **Number**

#### **ASSIGNMENT BOOKLET 1B**



**Learning  
Technologies  
Branch**

**Alberta**  
LEARNING

## FOR TEACHER'S USE ONLY

### Summary

|                         | Total Possible Marks | Your Mark |
|-------------------------|----------------------|-----------|
| Section 2 Assignment    | 40                   |           |
| Final Module Assignment | 20                   |           |
|                         | 60                   |           |

### Teacher's Comments

Mathematics 14  
Module 1: Number  
Assignment Booklet 1B  
Section 2 Assignment and Final Module Assignment  
Learning Technologies Branch  
ISBN 0-7741-2483-0

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| Teachers                      | ✓ |
| Administrators                |   |
| Home Instructors              |   |
| General Public                |   |
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# ASSIGNMENT BOOKLET 1B

## MATHEMATICS 14: MODULE 1

### SECTION 2 ASSIGNMENT AND FINAL MODULE ASSIGNMENT

Your mark for this module will be determined in part by how well you do your assignments.

This Assignment Booklet is worth 60 marks out of the total 100 marks for the assignments in Module 1. The value of each assignment and each question is stated in the left margin.

Work slowly and carefully. If you have difficulty, go back and review the appropriate lessons.

Be sure to proofread your answers carefully.

40

### Section 2 Assignment: Decimals

**Read all parts of your assignment carefully and record your answers in the appropriate places. Clearly show how you arrived at your answers by showing your work.**

1. Jolene measured the width of her room to be 2.45 m.

a. Round Jolene's measurement to the nearest metre. \_\_\_\_\_

b. Round Jolene's measurement to the nearest tenth of a metre. \_\_\_\_\_

2. If you want to round a decimal number to the nearest hundredth, what place holder must you look at in order to decide whether to round up or down? Give examples to support your answer.

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Turn to Section 2: Lesson 2 in the Module 1 Student Module Booklet.

3. Jackie is shopping for a winter coat. She sees a coat she likes on sale for \$49.49. The regular price is \$78.95.

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- a. Explain how she would estimate the difference between the two prices.

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2

- b. Use a pencil-and-paper method to calculate this difference.

2

4. a. Estimate an answer for the expression  $79.65 + 40.125 + 19.8$ .

2

- b. Calculate the answer using a paper-and-pencil method. Show your work.

- ④ 5. Jasmine purchased three different binders. Including tax, two of the binders cost \$3.45 and \$2.83. If she received \$12.93 in change from a \$20 bill, how much did the third binder cost?



Turn to Section 2: Lesson 3 in the Module 1 Student Module Booklet.

- ② 6. How could you use an estimate of the answer to decide where to put the decimal in the following product?

$$\begin{array}{r} 35.67 \\ \times 2.1 \\ \hline 74907 \end{array}$$

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- ③ 7. Using pencil and paper, John multiplied 5.78 by a second decimal number. He decided the product had 6 decimal places. How many decimal places did the second decimal number have? Explain your answer.

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- ③ 8. Multiply 22.3 by 6.5 using a pencil-and-paper method.

9. Determine the missing number.

① a.  $4.567 \times \square = 4567$  \_\_\_\_\_

① b.  $4.567 \times \square = 0.04567$  \_\_\_\_\_



Turn to Section 2: Lesson 4 in the Module 1 Student Module Booklet.

10. Determine the missing number.

①

a.  $0.345 \div \square = 34.5$  \_\_\_\_\_

①

b.  $67.84 \div 1000 = \square$  \_\_\_\_\_

①

c.  $3.345 \div 1000 \div 0.001 = \square$  \_\_\_\_\_

①

d.  $\square \div 0.0001 = 67.3$  \_\_\_\_\_

③

11. Explain how you would estimate an answer for  $47.2 \div 7.9$ . What is your estimate?

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③

12. At a bake sale, Khana bought a dozen bagels. He received 80¢ in change from \$20.00. How much did each bagel cost?

②

13. Nine players from a baseball team went to a restaurant to celebrate their winning season. The bill came to \$173.25. They decided to split the cost equally.

a. How would you estimate each player's share?

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①

- b. What is the exact amount of each share?



Turn to Section 2: Conclusion in the Module 1 Student Module Booklet.

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## Final Module Assignment

**Read all parts of your assignment carefully and record your answers in the appropriate places. Clearly show how you arrived at your answers by showing your work.**

③

1. Evaluate  $(3^2 - 7 \times 1.2) - 60 \div 100$ .

④

2. Explain how you could use tiles to determine  $(+2) - (-6)$ .

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② 3. Evaluate  $(-1) - (+2) - (-3) - (+4) - (-5)$ .

4.  $(-17)^2 \times (-5) \div (+85)$

② a. Predict whether the answer is positive or negative. Explain your answer.

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① b. Use your calculator to find the answer. \_\_\_\_\_

② 5. Explain how to estimate an answer to  $45 \times 5.99 \div 6.01$ .

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③ 6. There are 11 steps in the staircase from the basement to the family room. Each step is 0.23 m high. What is the total height of the staircase?

③

7. Explain how you would use base ten blocks to multiply 1.2 by 1.3. Use diagrams to support your answer.

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